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PATENT  
P56355

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

SEUNG-BEOM CHOI

Serial No.: 09/826,010

Examiner: TRAN, TRANG U.

Filed: 5 April 2001

Art Unit: 2614

For: COMPUTER SYSTEM AND METHOD FOR STORING TV SIGNALS  
THEREIN

**REQUEST FOR SUPPLEMENTAL NOTICE OF ALLOWANCE**

Attn: Examiner Trang U. TRAN  
Telephone: (571) 272-7358  
Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

**Facsimile No: (571) 273-7358**

Sir:

Per our telephone discussion this afternoon, on 13 July 2005, we are forwarding you the Amendment under 37 C.F.R. §1.312 (Paper No. 14) filed on 29 April 2005.

Entry of this Amendment and issuance of Notice of Supplementary Allowance prior to payment of the issue fee in response to the Notice of Allowance (Paper No. 2005010) issued on the 19 April 2005 is respectfully requested.

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Respectfully submitted,



Robert E. Bushnell  
Attorney for the Applicant  
Reg. No.: 27,774

1522 "K" Street, N.W., Suite 300  
Washington, DC 20005  
(202) 408-9040

Enclosure: Copy of Amendment Under 37 CFR §1.312 filed on 4/29/05

Postcard confirmation of filing the Amendment Under 37 CFR §1.312

Folio: P56355  
Date 7/13/05  
I.D.: REB/fw

**P56355**

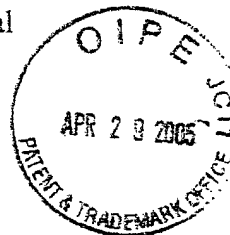
**29 April 2005**

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Applicant: SEUNG-BEOM CHOI  
Serial No.: 09/826,010  
Filed: 5 April 2001  
For: COMPUTER SYSTEM AND METHOD FOR STORING TV  
SIGNALS THEREIN

Document filed:

- ☒ Amendment Under 37 CFR §1.312
- ☒ Transmittal of Corrected Formal Figures 2 & 6 and Corrected  
Formal Figure 2 & 6.
- ☒ Check #49034 for \$150.00 & Fee Transmittal



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

SEUNG-BEOM CHOI

Serial No.: 09/826,010

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Filed: 5 April 2001

Art Unit: 2614

For: COMPUTER SYSTEM AND METHOD FOR STORING TV SIGNALS THEREIN


**CERTIFICATION OF FACSIMILE TRANSMISSION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

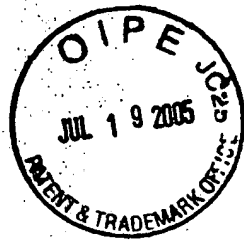
This is to certify that on this, the 13<sup>th</sup> of July 2005, this Request for Supplementary Notice of Allowance was facsimile transmitted to Examiner Trang U. Tran of the U.S. Patent & Trademark Office. Duplicate copy of the instance is today being simultaneously filed in the U.S. Patent & Trademark Office.

Respectfully submitted,

  
Robert E. Bushnell,  
Attorney for the Applicant  
Registration No.: 27,774

1522 "K" Street N.W., Suite 300  
Washington, D.C. 20005  
(202) 408-9040

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Date: 7/13/05  
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**P56355**

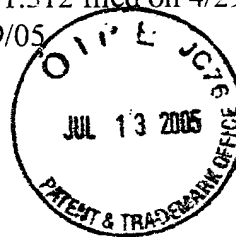
**13 July 2005**

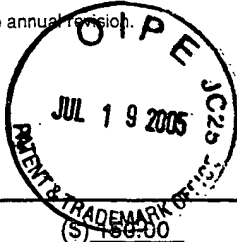

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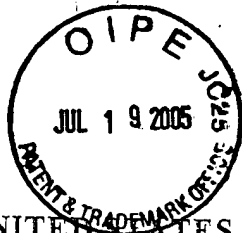
Applicant: SEUNG-BEOM CHOI  
Serial No.: 09/826,010  
Filed: 5 April 2001  
For: COMPUTER SYSTEM AND METHOD FOR STORING TV  
SIGNALS THEREIN

Document filed:

- ☒ Request for Supplemental Notice of Allowance
- ☒ Copy of Amendment Under 37 CFR §1.312 filed on 4/29/05
- ☒ Copy of postcard confirmation of 4/29/05
- ☒ Certificate of Facsimile Transmission



FEE TRANSMITTAL		Complete If Known																																																																																																																																																																																					
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See 37 CFR 1.27		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Fee Code</th> <th style="width: 10%;">Fee (\$)</th> <th style="width: 10%;">Fee Code</th> <th style="width: 10%;">Fee (\$)</th> <th style="width: 40%;">Fee Description</th> <th style="width: 10%;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center; font-weight: bold;">MISCELLANEOUS</td> </tr> <tr> <td>1801</td> <td>\$790</td> <td>2801</td> <td>\$395</td> <td>Request for continued examination (RCE)</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>1806</td> <td>\$180</td> <td></td> <td></td> <td>Submission of an IDS</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>1814</td> <td>\$130</td> <td>2814</td> <td>\$65</td> <td>Statutory disclaimer</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>1501</td> <td>\$1,400</td> <td>2501</td> <td>\$685</td> <td>Utility issue fee (or reissue)</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>1504</td> <td>\$300</td> <td>1504</td> <td>300</td> <td>Publication fee for early, voluntary, or normal publication</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>8021</td> <td>\$40</td> <td></td> <td></td> <td>Recordation of assignment per property</td> <td style="text-align: right;">\$</td> </tr> <tr> <td colspan="6" style="text-align: center; font-weight: bold;">TRADEMARK</td> </tr> <tr> <td></td> <td></td> <td>6001/7001</td> <td>\$335</td> <td>Application for registration, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6002/7002</td> <td>\$100</td> <td>Amendment to Allege Use, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6003/7003</td> <td>\$100</td> <td>Statement of Use, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6004/7004</td> <td>\$150</td> <td>Request for six-month extension of time, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6205/7205</td> <td>\$100</td> <td>\$8 affidavit, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6208/7208</td> <td>\$200</td> <td>\$15 affidavit, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6201/7201</td> <td>\$400</td> <td>Application for renewal, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td></td> <td>6403/7403</td> <td>\$100</td> <td>Ex parte appeal, per class</td> <td style="text-align: right;">\$</td> </tr> <tr> <td colspan="6" style="text-align: center; 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Typed or Printed Name  Signature		Robert E. Bushnell, Esq.  		Reg. Number  Deposit Account User ID																																																																																																																																																																																			
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AMENDMENT UNDER 37 C.F.R. §1.312

Paper No. 14

Mail Stop Issue Fee  
Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Facsimile No: (703) 872-9306

Sir:

Entry of this Amendment filed in conformance with 37 C.F.R. §1.312 (as amended)  
prior to payment of the issue fee in response to the Notice of Allowance (Paper No. 2005010)  
issued on the 19<sup>th</sup> of April 2005 is respectfully requested.

Folio: P56355  
Date: 4/29/05  
I.D.: REB/kf/fw

IN THE SPECIFICATION

1. Please amend paragraph [0025] as follows:

[0025] ~~Fig. 2 is a flow chart of~~ Figs. 2 and 6 are flowcharts illustrating a method of reserve-recording a television program on the computer system, in accordance with the principles of the present invention;

2. Please amend paragraph [0045] as follows:

[0045] Referring collectively to ~~Fig. 2~~ Figs. 2 and 6, the process of receiving the television signals and storing them in the hard disk drive 50 according to the reserve-recording conditions will be described. A user connects a power to the computer system to activate the reserve-recording set-up part 60, for receiving television signals and storing them in the hard disk drive 50 in the form of digital file (S10). Subsequently, the reserve-recording set-up window display 61 is shown up as seen in Fig. 3, allowing the user to set up the reserve-recording conditions, and accordingly, the user sets up a television broadcasting program desired for reserve-recording and a broadcast time (S20).

3. Please amend paragraph [0052] as follows:

[0052] The recording is finished by the record-controlling part 70 according to the reserve-recording conditions set up through the reserve-recording set-up part 60, and the mode selection window display 80 is shown up in the monitor 40, allowing the user to determine whether to continuously use the computer or to maintain the computer in suspension (S200);



in other words, at step S202, a user is presented with choices of making a selection of a normal mode or a power saving mode after completion of the recording. Step S210 is performed after step S200, in order to determine whether the mode is the power saving mode. Where the mode selection window display 80 is not used because of the user's sleep or rest, etc., the power saving mode is automatically selected and the step S50 is accordingly conducted. Conversely, where the power mode can be selected through the mode selection window display 80, it is determined whether the power saving mode is selected or not, and the step S90 or S50 is conducted depending upon the determination (S210).

IN THE CLAIMS

Please amend claim 19, and add dependent claims 25 through 27, as follows:

1. (Previously Presented) A computer system, comprising:

a central processing unit driving an operating system;

a television receiver part for receiving external television program signals;

a storage unit for storing the television program signals in digital form;

a reserve-recording set-up part for setting up reserve-recording conditions for the television program signals, the reserve-recording conditions including a time to start recording;

a record-controlling part for storing the television program signals in said storage unit according to the set-up reserve-recording conditions; and

a power control part for controlling power supplied in a normal mode and in a power saving mode, and for automatically switching from the power saving mode to the normal mode according to the set-up reserve-recording conditions when the time for reserve-recording approaches, power being automatically supplied to said central processing unit when switched to the normal mode, and power not being supplied to said central processing unit when switched to the power saving mode.

2. (Previously Presented) The system of claim 1, said reserve-recording set-up part comprising a password skipping unit not requiring a user to enter a password when the power

3 saving mode is changed to the normal mode and the password was previously supplied to the  
4 computer system.

1 3. (Previously Presented) The system of claim 1, said power control part changing  
2 said central processing unit from the normal mode to the power saving mode after the  
3 reserve-recording conditions are set up through said reserve-recording set-up part.

1 4. (Previously Presented) The system of claim 1, said reserve-recording set-up part  
2 comprising a mode selection window display operable by a user for selecting a power mode  
3 of said central processing unit after the reserve-recording conditions are set up, said power  
4 control part automatically switching the power mode of said central processing unit  
5 according to user selection of the power mode with said mode selection window display.

1 5. (Previously Presented) The system of claim 1, said power control part  
2 automatically switching said central processing unit from the normal mode to the power  
3 saving mode after the television program signals are stored in said storage unit.

1 6. (Previously Presented) The system of claim 1, said record-controlling part  
2 comprising a mode selection window display operable by a user for selecting a power mode  
3 of said central processing unit after the setting up of the reserve-recording conditions is  
4 performed.

1           7. (Previously Presented) The system of claim 1, said power control part  
2 automatically switching said central processing unit from the power saving mode to the  
3 normal mode when the power is supplied to the computer system by a user at a time when the  
4 computer system is in the power saving mode.

1           8. (Previously Presented) The system of claim 1, said reserve-recording part  
2 comprising an identification window display for identifying the reserve-recording conditions  
3 when said central processing unit is changed to the normal mode.

1           9. (Previously Presented) The system of claim 8, said identification window display  
2 performing at least one of cancellation, modification, and approval of the set-up reserve-  
3 recording conditions.

1           10. (Previously Presented) The system of claim 1, said storage unit comprising one  
2 of a hard disk drive, a recordable compact disk drive, and a recordable digital versatile disk  
3 drive.

1           11. (Previously Presented) A method for storing television program signals in a  
2 computer, said method comprising:  
3           setting up recording conditions to record the television program signals in a storage

unit of a computer system having a central processing unit;

automatically switching a power mode of the central processing unit from a power saving mode to a normal mode in dependence upon the recording conditions, power being automatically supplied to the central processing unit when switched to the normal mode, and power not being supplied to the central processing unit when switched to the power saving mode; and

storing the television program signals in the storage unit according to the recording conditions.

12. (Previously Presented) The method of claim 11, said switching step further comprising:

detecting when a password has been previously provided to the computer system; and when the password has been previously provided to the computer system, not requiring the password to be entered.

13. (Previously Presented) The method of claim 11, said setting up step further comprising automatically switching the power mode of the central processing unit from the normal mode to the power saving mode after said setting up of the recording conditions.

14. (Previously Presented) The method of claim 11, further comprising displaying a mode selection window display operable by a user for selecting the power mode of the

3 central processing unit after said setting up of the recording conditions.

1 15. (Previously Presented) The method of claim 11, further comprising automatically  
2 switching the power mode of the central processing unit from the normal mode to the power  
3 saving mode after said storing of the television program signals.

1 16. (Previously Presented) The method of claim 11, further comprising displaying  
2 a mode selection window display operable by a user for selecting the power mode of the  
3 central processing unit after said storing of the television program signals is performed.

1 17. (Previously Presented) The method of claim 11, further comprising automatically  
2 switching the power mode of the central processing unit from the power saving mode to the  
3 normal mode when the power is supplied to the computer system by a user at a time when the  
4 computer system is in the power saving mode.

1 18. (Previously Presented) The method of claim 11, further comprising displaying  
2 an identification window display for identifying the recording conditions when said  
3 switching from the power saving mode to the normal mode is performed.

1 19. (Currently Amended) A method for storing television program signals in a  
2 computer system, said method comprising the steps of:

3           setting up recording conditions to record the television program signals in a computer  
4           system having a central processing unit, the recording conditions including a time to start  
5           recording, power being supplied to the central processing unit in a normal mode, and power  
6           not being supplied to the central processing unit in a power [[save]] saving mode;

7           identifying when a power mode of the central processing unit comprises the power  
8           saving mode and when the time to start recording approaches;

9           automatically converting from the power saving mode to the normal mode when the  
10          power mode of the central processing unit is the power saving mode and when the time to  
11          start recording arrives; and

12          recording the television program signals in a storage unit of the computer system.

1           20. (Previously Presented) The method of claim.19, further comprising automatically  
2           switching the power mode of the central processing unit from the normal mode to the power  
3           saving mode after said setting up of the recording conditions.

1           21. (Previously Presented) The method of claim 19, further comprising automatically  
2           switching the power mode of the central processing unit from the normal mode to the power  
3           saving mode after said recording of the television program signals.

1           22. (Previously Presented) The method of claim 19, further comprising automatically  
2           switching the power mode of the central processing unit from the power saving mode to the

3 normal mode when the power is supplied to the computer system by a user at a time when the  
4 computer system is in the power saving mode.

1 23. (Previously Presented) The method of claim 19, further comprising not requiring  
2 a user to enter a password when the power saving mode is changed to the normal mode and  
3 the password was previously supplied to the computer system.

1 24. (Previously Presented) The method of claim 19, further comprising the steps of  
2 providing a mode selection window display operable by a user for selecting the power mode  
3 of said central processing unit after the reserve-recording conditions are set up, and  
4 automatically switching the power mode of said central processing unit according to user  
5 selection of the power mode.

1 25. (New) The computer system of claim 1:  
2 wherein said power control part receives user instructions; and  
3 wherein said power control part automatically switches from said normal mode to said  
4 power saving mode upon completion of said storing of said television program signals in  
5 accordance with said user instructions.

1 26. (New) The method of claim 11:  
2 wherein said computer system receives user instructions; and



3            wherein said computer system automatically switches from said normal mode to said  
4            power saving mode upon completion of said storing of said television program signals in  
5            accordance with said user instructions.

1            27. (New) The method of claim 19:

2            wherein said computer system receives user instructions; and

3            wherein said computer system automatically switches from said normal mode to said  
4            power saving mode upon completion of said recording of said television program signals in  
5            accordance with said user instructions.

### REMARKS

Entry of this Amendment pursuant to 37 C.F.R. §1.312 in response to observations made by the Examiner in Paper No. 20050121 (a final Office action dated on the 26<sup>th</sup> of January 2005), in response to the subsequent withdrawal of all art rejections, and in response to the absence of any statement from the Examiner in the nature of “reasons for allowance.”

#### Status of the Claims

Claims 1 through 24 remain pending. By this Amendment, claim 19 is amended to assure correspondence and antecedent basis in one instance. This Amendment does not propose any other change any of the allowed claims 1 through 24. Dependent claims 25 through 27 are added in order to round out the scope of coverage to which Applicant is entitled. Entry of the amendment to claim 19 and newly presented dependent claims 25 through 27 are respectfully requested.

#### Dependent Claims 25-27

Claims 25, 26 and 27, depending respectively upon independent claims 1, 11 and 19, define Applicant's “control part” and process in terms of “*upon the completion of*” the storing, or recording, of the television program signals.

#### Brusky U.S. 6.285.406 and Schein, et alii U.S. 6.388.714

With respect to the Brusky '406, the PC/TV device is actually two distinctive devices

combined into a single device having two distinctive modes (TV and PC) for carrying out two distinctive functions and thus, does not offer interoperability between the two devices.

Furthermore, the power management of the two devices is carried out independently. That is, for the computer device, the power management is carried out in a conventional manner to switch from the (1) full-on-state, (2) enabled state, (3) standby state, and (4) suspend state, in dependence upon the input activity of the user; whereas for the TV device, such conventional computer type power management is disabled (*i.e.*, always fully on unless the user should happen to turn off the TV).

Accordingly, Brusky '406 teaches away from the modification of the Schein *et al.* '714, to:

1. Integrate the power management of computer system having capability to record television signals, and
2. Carry-out (enable) the power management functionality of the computer system having integrated television recording function.

Furthermore, given the independent nature of the PC/TV device and the corresponding distinctive mode as explained in Brusky '406, the stated programmed VCR recording or TV program guide download event is directed to the powering-on of the TV device within the PC/TV since the VCR recording is a function which is within the realm of the TV device. Thus, even if combined, the stated "...automatically switching from the power saving mode to the normal mode..." of a computer system having integrated television signal recording function is not met.

### **Drawings**

FIG. 2 is amended to delete the misplaced **NO** formerly interposed between the box indicating Step **S90** and the junction between Steps **S100** and **S150**.

FIG. 2 is also amended to replace the rather awkward legend of Step **S90** with **"Continue operation."**

In addition, the drawing correction proposed on 5 April 2001 has been incorporated in FIG. 2. FIG. 6 is presented with these modifications of FIG. 2, and additionally with a clarification of the legend of Step **S202**, in lieu of the legend given in FIG. 2 for Step **S200**.

### **Specification**

The specification is amended to conform to the addition of FIG. 6. In addition, one typographical error is being corrected in paragraph [0052].

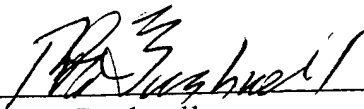
### **Fees Incurred**

A fee of \$150.00 is incurred by the addition of three (3) dependent claims in excess of a total 24. Applicant's check drawn to the order of Commissioner accompanies this Amendment. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Conclusion

In view of the above, it is submitted that claims 1 through 24 remain allowed, and newly added claims 25 through 27, all of which depend upon allowed independent claims, are allowable, and the application remains in condition for allowance. The foregoing amendment addresses various formalities, and entry of these amendments does not necessitate either further consideration, any additional search, or a re-opening of the examination. Should any questions remain unresolved, the Examiner is requested to telephone Applicant's attorney.

Respectfully submitted,

  
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Attorney for the Applicant  
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Folio: P56355  
Date: 4/29/05  
I.D.: REB/kf/fw



PATENT  
P56355

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SEUNG-BEOM CHOI

Serial No.: 09/826,010

Examiner: TRAN, TRANG U.

Filed: 5 April 2001

Art Unit: 2614

For: COMPUTER SYSTEM AND METHOD FOR STORING TV SIGNALS  
THEREIN

TRANSMITTAL OF CORRECTED FORMAL FIGURE 2 & 6

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

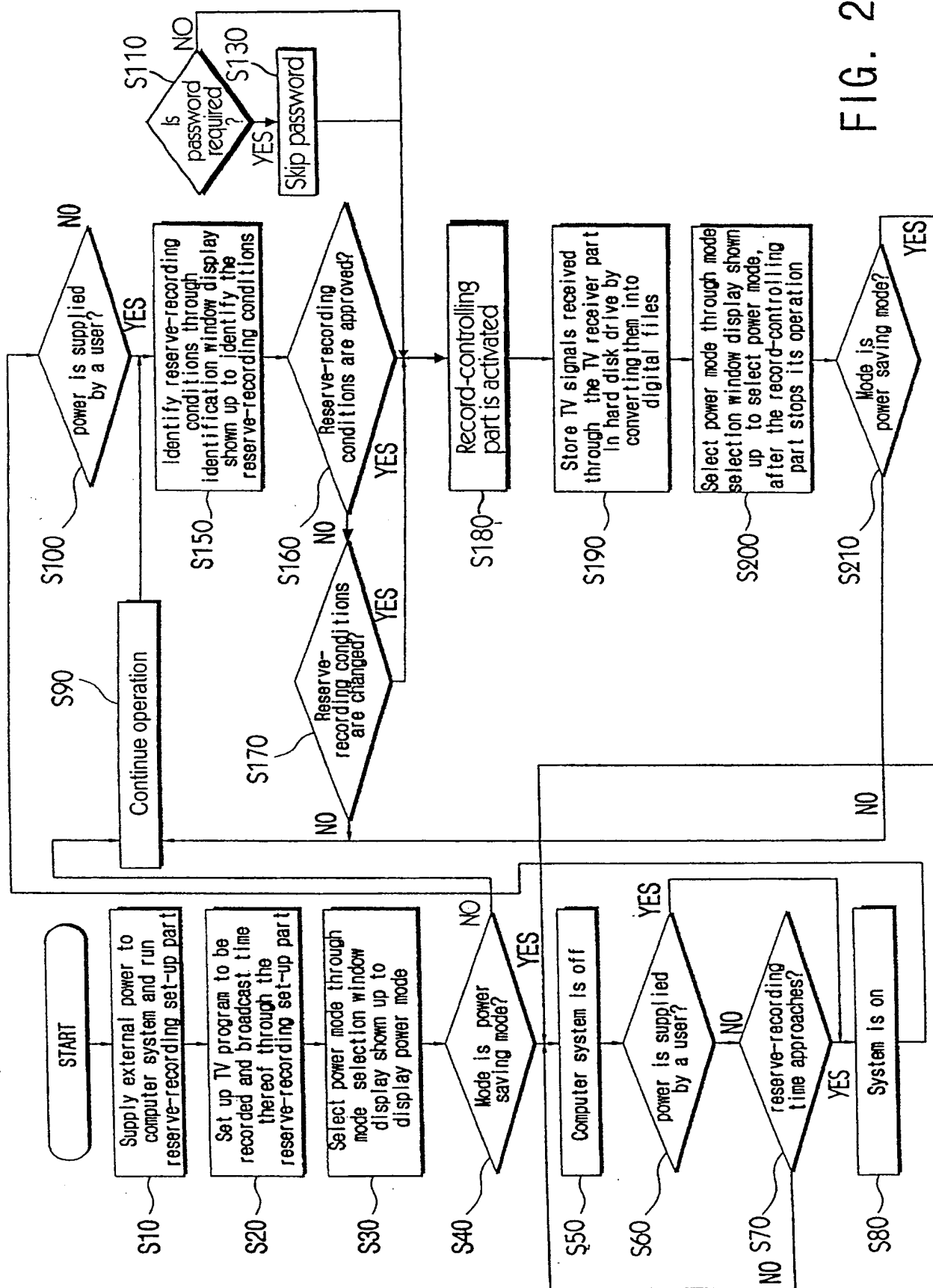
This transmittal letter is accompanied by corrected Formal Figure 2 and 6 which incorporates the drawing changes proposed in the Amendment concurrently submitted herewith. Entry of the accompanying corrected Formal Figure 2 and 6 is respectfully requested.

Respectfully submitted,

Robert E. Bushnell,  
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Folio: P56355  
Date: 3/22/05  
I.D.: REB/fw



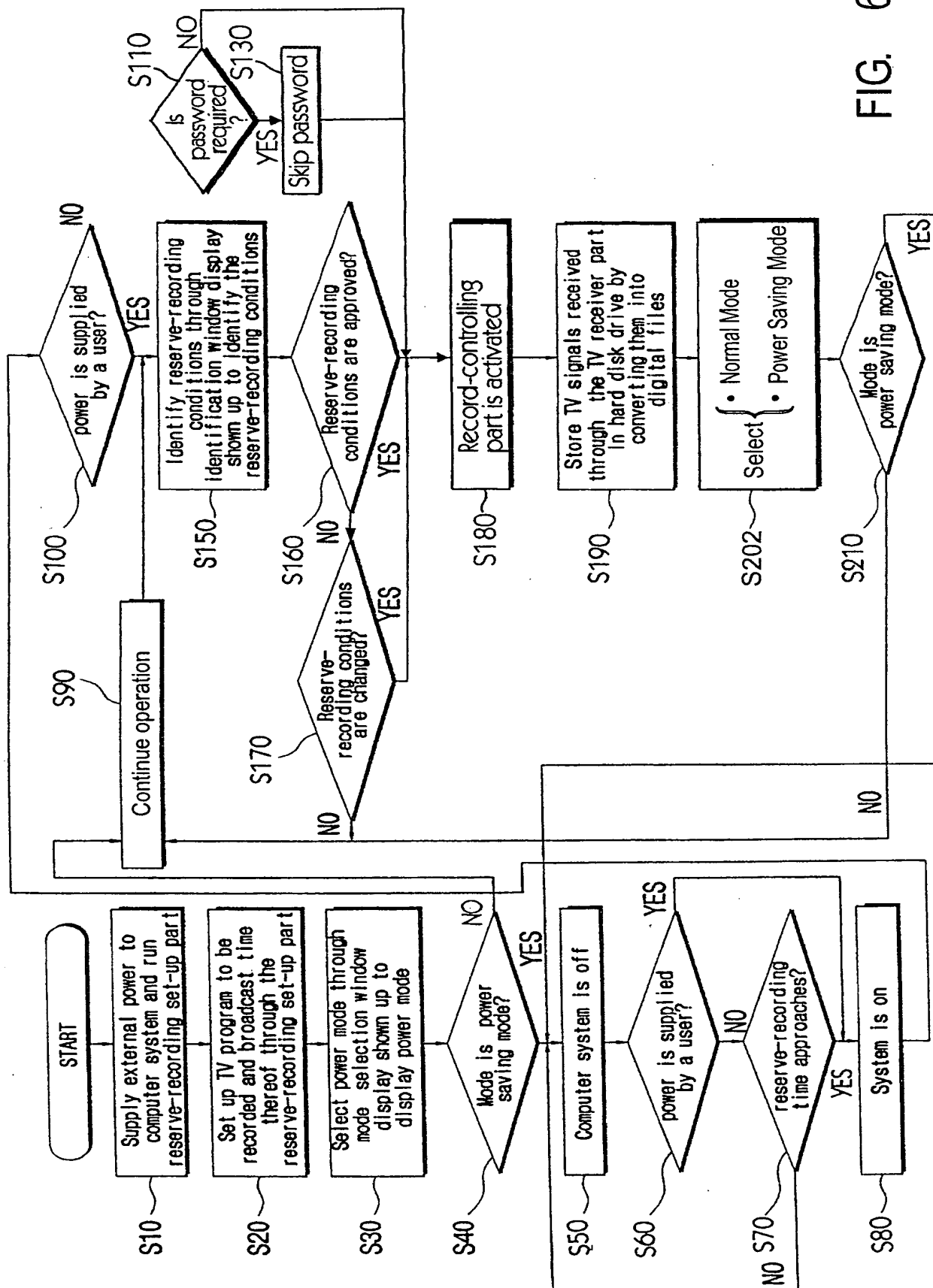
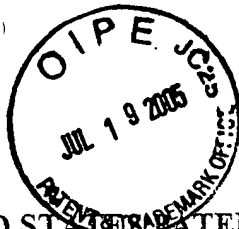


FIG. 6





PATENT  
P56355

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE BOARD OF PATENT APPEALS & INTERFERENCES

In re Application of:

SEUNG-BEOM CHOI

Serial No.: 09/826,010

Examiner: TRAN, TRANG U.

Filed: 5 April 2001

Art Unit: 2614

For: COMPUTER SYSTEM AND METHOD FOR STORING TV SIGNALS  
THEREIN

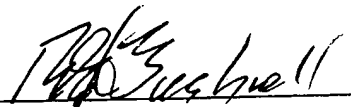
CERTIFICATION OF FACSIMILE TRANSMISSION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is to certify that on this, the 29<sup>th</sup> of April 2005, this Amendment Under 37 C.F.R. §§ 1.312 was facsimile transmitted to the Art Unit 2614. Duplicate copy of the instance is today being simultaneously filed in the U.S. Patent & Trademark Office.

Respectfully submitted,

  
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